# comprehensive Data delivery README FILE

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| **Study Section** | Study 6.5: Geomorphology (GEO) |
| **Study Component** | (3) Sediment Supply and Transport Middle and Lower Susitna River Segments  (8) Reservoir Geomorphology  (10) Geomorphology of Stream Crossings along Transmission Lines and Access Alignments |
| **Prepared By** | Tetra Tech, Inc. |
| **Data Collection and Processing By** | Tetra Tech, Inc. |
| **Field Date Range** | August 12, 2014 – September 29, 2014 |

**Introduction:** The overall goal of the Geomorphology Study is to characterize the geomorphology of the Susitna River, and to evaluate the effects of the Project on the geomorphology and dynamics of the river by predicting the trend and magnitude of geomorphic response. More specifically, the purpose of the Geomorphology study, along with the Fluvial Geomorphology below Watana Dam Study (Study 6.6), is to assess the potential impact of the Project on the behavior of the river downstream of the proposed dam, with particular focus on potential changes in instream and riparian habitat.

Field and aerial reconnaissance data was collected in 2014 as part of study components 3 (Sediment Supply and Transport Middle and Lower Susitna River Segments), 8 (Reservoir Geomorphology), and 10 (Geomorphology of Stream Crossings along Transmission Lines and Access Alignments.

**Data Summary:** Photos and videos were collected as part of field and aerial reconnaissance efforts in the Lower, Middle, and Upper Susitna River Segments. Photos and videos are organized according to the study component to which they pertain to.

Access Corridors (Study Component 10)

Photos collected as part of this study component are delivered as JPEGS and named as follows:

“6\_5\_GEO\_Access\_Recon\_*Photo Number*”

Photo numbers can be tied to specific stream crossings along access routes using the photo numbers in the JPEG file name and Table 5.10-1 in Study 6.5 2014-2015 Study Implementation Report (report cited at end of document).

Tributary Aerial Reconnaissance (Study Component 3 and 8)

Tributary aerial reconnaissance videos taken on August 30, 2014 have the location of the video (i.e. tributary name) noted in the file name. The location is also noted in the file name of photographs were applicable. Latitude and longitude (WGS84) are embedded within the JPEGs.

Aerial reconnaissance videos taken on September 28 and 29, 2014 have video numbers noted in the file name. The video numbers and associated location are summarized in the “6\_5\_Aerial\_Recon\_20140928\_and\_20140929\_Video\_Locations” excel spreadsheet.

Upper River Tributary Field Reconnaissance Photos (Study Component 8)

Photos collected as part of this study component are delivered as JPEGs and named as follows:

“6\_5\_Field\_Recon\_*Tributary Name\_*Photo\_*Photo Number*\_20170630”

A photo log for all the tributary field reconnaissance photos describes the tributary, comment, and photo number for each photograph.

Reconnaissance photographs were collected at 7 Upper Susitna River tributaries: Deadman Creek (PRM 189.4), Watana Creek (PRM 196.9), Kosina Creek (209.1), Jay Creek (PRM 211.0), Unnamed Tributary PRM 228.5, Goose Creek (PRM 232.8), Oshetna River (PRM 235.1)

**Data Organization:** Photos and videos are organized according by study component:

* **Access\_Corridor\_Recon**
* **Tributary\_Aerial\_Recon**
  + 8-30-2014
  + 9-28\_AND\_9-29-2014
* **UpperRiver\_Trib\_Field\_Recon**
  + DeadmanCk (subfolder)
  + GooseCk (subfolder)
  + JayCk (subfolder)
  + KosinaCk (subfolder)
  + OshetnaR (subfolder)
  + UNT\_228-5 (subfolder)
  + WatanaCk (subfolder**)**

**Software or Hardware Considerations:** None.

**Online Data Link:** Folder “Photos\_Videos”at <http://gis.suhydro.org/SuWa/06-GEO/6.05-GEO/>

**Online Report Link:** “06.05 Geomorphology Study - 2014-2015 Study Implementation Report (Part 1 of 3)” under November 2015; Study Completion and 2014/2015 Implementation Reports at <http://www.susitna-watanahydro.org/type/documents/>

**[[1]](#endnote-1)**

1. **Data Distributor Contact Information:**

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